

What is claimed is:

1. A surface acoustic wave (SAW) filter comprising:

an input terminal;

an output terminal;

5 a series resonator provided between said input terminal and said output terminal;

first and second parallel resonators having respective one ports connected to respective ports of said series resonator, respectively;

10 first and second nodes connected to respective other ports of said first and second parallel resonators, respectively;

first and second inductance elements having respective one ends connected to said first and second nodes, respectively;

a third node connected to respective other ends of said first and second inductance elements;

15 a third inductance element having one end connected to said first node;

a grounding terminal connected to other end of said third inductance element; and

20 a capacitance element connected between said first and second nodes.

2. The SAW filter according to claim 1, further comprising:

a piezoelectric substrate for forming at least one of said series resonator, said first parallel resonator, and said second parallel resonators.

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3. The SAW filter according to claim 2, further comprising:

electrodes provided on said piezoelectric substrate and facing each

other for forming said capacitance element.

4. The SAW filter according to claim 2, wherein said first and second nodes are formed on said piezoelectric substrate and facing each other for  
5 forming said capacitance element.

5. The SAW filter according to claim 2, further comprising:  
projecting electrodes provided on said piezoelectric substrate and  
extending towards each other from said first and second nodes, respectively,  
10 for forming said capacitance element.

6. The SAW filter according to claim 5, wherein said projecting electrodes includes inter-digital electrodes.

15 7. An electronic device comprising:  
a surface acoustic wave (SAW) filter including  
an input terminal,  
an output terminal,  
a series resonator provided between said input  
20 terminal and said output terminal,  
first and second parallel resonators having respective  
one ports connected to respective ports of said series resonator, respectively.  
first and second nodes connected to respective other  
ports of said first and second parallel resonators, respectively,  
25 first and second inductance elements having respective  
one ends connected to said first and second nodes, respectively,  
a third node connected to respective other ends of said

first and second inductance elements,

a third inductance element having one end connected to said first node,

a grounding terminal connected to other end of said  
5 third inductance element, and

a capacitance element connected between said first and second nodes; and

an electronic component connected to one of said input terminal and said output terminal.

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8. The electronic device according to claim 7, wherein said SAW filter further includes a piezoelectric substrate for forming at least one of said series resonator, said first parallel resonator, and said second parallel resonators.

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9. The electronic device according to claim 8, wherein said SAW filter further includes electrodes provided on said piezoelectric substrate and facing each other for forming said capacitance element.

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10. The electronic device according to claim 8, wherein said first and second nodes are formed on said piezoelectric substrate and facing each other for forming said capacitance element.

11. The electronic device according to claim 8, wherein said SAW filter  
25 further includes projecting electrodes provided on said piezoelectric substrate and extending towards each other from said first and second nodes, respectively, for forming said capacitance element.

12. The SAW filter according to claim 11, wherein said projecting electrodes includes inter-digital electrodes.